

Unit 7 – Equilibrium (7-9%)

Some reactions can occur in both forward and reverse directions, sometimes proceeding in each direction simultaneously.

7.1 Intro to Equilibrium: Explain the relationship between the occurrence of a reversible chemical or physical process, and the establishment of equilibrium, to experimental observations.

- Many observable processes are reversible. Examples include evaporation and condensation of water, absorption and desorption of a gas, or dissolution and precipitation of a salt. Some important reversible chemical processes include the transfer of protons in acid-base reactions and the transfer of electrons in redox reactions.
- When equilibrium is reached, no observable changes occur in the system. Reactants and products are simultaneously present, and the concentrations or partial pressures of all species remain constant.
- The equilibrium state is dynamic. The forward and reverse processes continue to occur at equal rates, resulting in no net observable change.
- Graphs of concentration, partial pressure, or rate of reaction versus time for simple chemical reactions can be used to understand the establishment of chemical equilibrium.

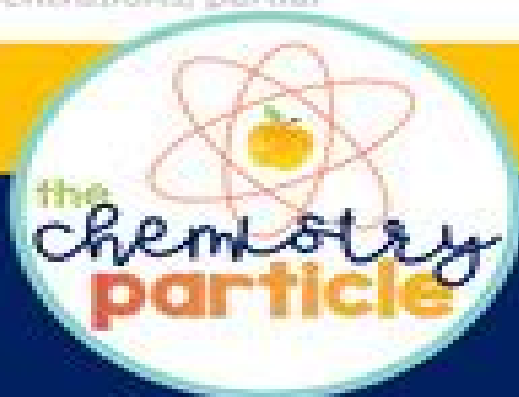
7.2 Direction of Reversible Reactions: Explain the relationship between the direction in which a reversible reaction proceeds and the relative rates of the forward and reverse reactions.

Unit 7 Objectives

Equilibrium

A system at equilibrium depends on the relationships between concentrations, partial pressures of chemical species, and equilibrium constant K .

AP Chemistry
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Modeling Chemistry Unit 7 Objectives

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Mukbaniani, Chin Hua Chia**

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Applied Chemistry and Chemical Engineering, Volume 4 A. K. Haghi, Lionello Pogliani, Eduardo A. Castro, Devrim Balköse, Omari V. Mukbaniani, Chin Hua Chia, 2017-12-22 Applied Chemistry and Chemical Engineering Volume 4 Experimental Techniques and Methodical Developments provides a detailed yet easy to follow treatment of various techniques useful for characterizing the structure and properties of engineering materials This timely volume provides an overview of new methods and presents experimental research in applied chemistry using modern approaches Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications and then goes on to demonstrate the advantage and disadvantages of each physical technique Thus readers will be able to apply the concepts as described in the book to their own experiments The book is broken into several subsections Polymer Chemistry and Technology Computational Approaches Clinical Chemistry and Bioinformatics Special Topics This volume presents research and reviews and information on implementing and sustaining interdisciplinary studies in science technology engineering and mathematics *Engineering Technology and Industrial Chemistry with Applications* Reza K. Haghi, Francisco Torrens, 2018-09-24 This volume Engineering Technology and Industrial Chemistry with Applications brings together innovative research new concepts and novel developments in the application of new tools for chemical and materials engineers It provides a collection of innovative chapters on new scientific and industrial research from chemists and chemical engineers at several prestigious institutions It looks at recent significant research and reports on new methodologies and important applications in the fields of chemical engineering as well as provides coverage of chemical databases bringing together theory and practical applications Highlighting theoretical foundations real world cases and future directions this authoritative reference source will be a valuable addition for researchers practitioners professionals and students of chemistry material and chemical engineering Resources in Education , 1992 **Biophysical Characterization of Proteins in Developing Biopharmaceuticals** Damian J. Houde, Steven A. Berkowitz, 2019-11-13 Biophysical Characterization of Proteins in Developing Biopharmaceuticals Second Edition presents the latest on the analysis and characterization of the higher order structure HOS or conformation of protein based drugs Starting from the very basics of protein structure this book explains the best way to achieve this goal using key methods commonly employed in the biopharmaceutical industry This book will help today s industrial scientists plan a career in this industry and successfully implement these biophysical methodologies This updated edition has been fully revised with new chapters focusing on the use of chromatography and electrophoresis and the biophysical characterization of very large biopharmaceuticals In addition best practices of applying statistical analysis to biophysical characterization data is included along with practical issues associated with the concept of a biopharmaceutical s developability and the technical decision making process needed when dealing with biophysical characterization data Presents basic protein characterization methods and tools applicable to bio

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